

WHAT IS CLAIMED IS:

1. A three-dimensional model management system
for managing a three-dimensional model in which relationship
of subordination of individual parts is represented by a
5 hierarchical structure, comprising:

attribute information acquiring means for
acquiring attribute information of individual parts
constituting the three-dimensional model;

10 sorting means for sorting the attribute
information acquired by said attribute information acquiring
means in accordance with the hierarchical structure;

display form setting means for setting a display
form in which the attribute information is to be output for
display;

15 editing means for editing the attribute
information sorted by said sorting means, in accordance with
settings by said display form setting means; and

output means for outputting the attribute
information edited by said editing means to a display device.

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2. The three-dimensional model management system
according to claim 1, wherein said editing means excludes
attribute information of a predetermined part such that the
predetermined part is not displayed on a display screen of
25 the display device.

3. The three-dimensional model management system

according to claim 1, further comprising classifying means for classifying the attribute information acquired by said attribute information acquiring means according to attributes,

5 wherein said editing means refers to a result of classification by said classifying means and excludes attribute information of a part having a predetermined attribute such that said part is not displayed on a display screen of the display device.

10 4. The three-dimensional model management system according to claim 1, wherein said editing means rearranges attribute information of a part at a lower hierarchical level than a predetermined hierarchical level in the hierarchical structure of the three-dimensional model such
15 that said part belongs to the predetermined hierarchical level.

20 5. The three-dimensional model management system according to claim 1, further comprising redefining means for redefining, as a single part, a group of parts which are defined in the three-dimensional model as a plurality of parts, and for generating anew attribute information on the redefined part.

25 6. The three-dimensional model management system according to claim 5, wherein said redefining means

redefines a predetermined part to which a plurality of parts are subordinate at a lower hierarchical level, as a single part including said plurality of parts, and generates anew attribute information on the redefined part.

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7. The three-dimensional model management system according to claim 1, further comprising specifying means for specifying predetermined attribute information displayed by the display device,

10 three-dimensional data acquiring means for acquiring, from the three-dimensional model, three-dimensional data corresponding to the attribute information specified by said specifying means, and

 facet data generating means for generating facet
15 data, which is surface data for display, from the three-dimensional data acquired by said three-dimensional data acquiring means.

8. The three-dimensional model management system
20 according to claim 7, further comprising identification information affixing means for affixing identification information indicative of normal creation to the facet data generated by said facet data generating means.

25 9. A computer-readable recording medium recording a program for causing a computer to manage a three-dimensional model in which relationship of subordination of

individual parts is represented by a hierarchical structure,
wherein the program causes the computer to function as

attribute information acquiring means for
acquiring attribute information of individual parts
5 constituting the three-dimensional model,

sorting means for sorting the attribute
information acquired by the attribute information acquiring
means in accordance with the hierarchical structure,

display form setting means for setting a display
10 form in which the attribute information is to be output for
display,

editing means for editing the attribute
information sorted by the sorting means, in accordance with
settings by the display form setting means, and

15 output means for outputting the attribute
information edited by the editing means to a display device.

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